

CHIBUZOR OKWUSIUNO

647-551-0922 | okwusiunosamuel@gmail.com | [linkedin.com/in/chibuzor-okwusiuno/](https://www.linkedin.com/in/chibuzor-okwusiuno/) | samokw.vercel.app

EDUCATION

University of Guelph

Bachelor of Computing: Software Engineering

Guelph, ON

Expected April 2026

EXPERIENCE

Coding Instructor

Zebra Robotics

June 2023 – Present

Brampton, ON

- Facilitated interactive workshops for 150+ Grade 9-10 students covering AI fundamentals, coding principles, and robotics applications using live demonstrations and hands-on programming exercises
- Developed and taught multi-language programming camps (C, Python, Java, JavaScript, HTML/CSS) for 30 students, resulting in increased engagement and a higher level of student interest in pursuing advanced programming topics.

Undergraduate Researcher (Course Credit)

University of Guelph, Student Mental Health Study

Jan 2025 – Apr 2025

Guelph, ON

- Co-authored a peer-reviewed conference proceeding: *Burnout Profiles of Canadian Undergraduate Students Using Latent Profile Analysis* (ICERI 2025, pp. 2023–2031).
- Analyzed data from 1,000+ survey responses to synthesize 3 actionable recommendations for improving mental health support in CS programs, presenting findings to 4 faculty members. Contributed to ongoing studies on undergraduate burnout profiles, with recommendations being further explored for potential implementation.

ACHIEVEMENTS

NSBEHacks 2026: 2nd Place – Ripple Challenge; **Won \$1.5K+** in prizes.

PROJECTS

FixtureSphere | *Spring Boot, ReactJS, SQL, AWS EC2, S3*

April 2023 – Present

- Designed, developed, and deployed a full-stack solution using **Spring Boot** and **ReactJS**, enabling users to efficiently access and analyze **20,000+** fixtures through custom REST API endpoints and interactive data visualizations.
- Optimized content delivery speed by **20%** through deployment on AWS EC2 (backend) and S3 (frontend), leveraging CloudFront caching as a Content Delivery Network (CDN) to ensure faster load times and reduced latency for global users.

Student Web Project Gallery | *AWS Lambda, API Gateway, DynamoDB, S3, Python, React*

2026

- Architected and deployed a serverless platform on AWS enabling students to upload, validate, and publish web projects to unique public URLs, supporting ZIP-based deployment with automated file extraction, HTML injection for analytics tracking, and presigned S3 uploads.
- Built a full event-driven backend with 5 Lambda functions handling authentication, project CRUD, deployment pipelines, and lightweight analytics with cooldown-based deduplication, reducing infrastructure costs to near-zero through pay-per-request DynamoDB and S3 static hosting.

SSL Tracker | *Go*

github.com/samokw/ssl_tracker

- Developed robust SSL tracking CLI tool implementing advanced testing strategies (fuzz testing with 8 million inputs, race detection, goroutine leak verification) achieving 80.7% code coverage through GitHub Actions CI/CD
- Streamlined developer onboarding with a curl-based installation script, enabling 10+ developers to get started in under 30 seconds, compared to manual build processes.

TECHNICAL SKILLS

Languages: Java, Python, C, SQL, TypeScript, HTML/CSS, R, Go

Frameworks/Libraries: ReactJS, Spring Boot, Node.js, Next.js, Pandas

Tools & Concepts: Git, Docker, AWS (Lambda, EC2, RDS, CloudWatch, S3, CloudFront, Route 53), OOP, SOLID Principles, Data Structures & Algorithms, REST APIs, SDLC, Agile Methodologies, CI/CD (GitLab)